Flashback – Radicals

1. **Where is $\sqrt{6x^3}$ defined?**

2. **Write as an entire radical** $\frac{2}{3}\sqrt{24}$

3. **Simplify** $\sqrt{98}$

4. **Simplify:** $\frac{5\sqrt{2}}{\sqrt{6}}$

5. **Simplify:** $\sqrt{63} - 2\sqrt{28} + 3\sqrt{5}$

6. **Simplify:** $6\sqrt{5}\left(2 - 4\sqrt{10}\right)$

7. **Simplify:** $\left(\sqrt{7} - 2\sqrt{5}\right)\left(3\sqrt{7} + \sqrt{20}\right)$

8. **Rationalize** $\frac{4}{2\sqrt{5}+\sqrt{3}}$

9. **Solve:** $\sqrt{5x + 2} - 8 = 2$